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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=29; hr=9; min=44; sec=3; ms=408;]

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Application No: 10561720 Version No: 2.0

Input Set:

Output Set:

Started: 2008-08-29 16:36:15.018
Finished: 2008-08-29 16:36:15.776
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 758 ms
Total Warnings: 8
Total Errors: 0
No. of SeqIDs Defined: 19
Actual SeqID Count: 19

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
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SEQUENCE LISTING

<110> Board of Trustees Operating Michigan State University
Allison, Richard F.

<120> Expression of a Recombinant Transgene

<130> 6550-000072/US/NPB

<140> 10561720

<141> 2005-12-22

<150> PCT/US04/21451

<151> 2004-07-02

<150> US 60/485,073

<151> 2003-07-03

<160> 19

<170> PatentIn version 3.5

<210> 1

<211> 26

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 1

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26

<210> 2

<211> 16

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 2

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16

<210> 3

<211> 835

<212> DNA

<213> Cauliflower mosaic virus

<400> 3

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120

ccaagaaggt taaagatgca gtcaaaagat tcaggactaa ctgcatcaag aacacagaga

180

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240

acaaaccaag gcaagtaata gagattggag tctctaaaaa ggttagttccc actgaatcaa

300

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<210> 4
<211> 581
<212> DNA
<213> Encephalomyocarditis virus

<400> 4
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ggggccggaa acctggccct gtcttcttga cgagcattcc taggggtctt tccctctcg 180
ccaaaggaat gcaaggctcg ttgaatgtcg tgaaggaagc agttcctctg gaagcttctt 240
gaagacaaac aacgctctgt agcgaccctt gcaggcagcg gaacccccc cctggcgaca 300
ggtgccctctg cggccaaaag ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc 360
agtgccacgt tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat 420
tcaacaaggg gctgaaggat gcccagaagg tacccattg tatggatct gatctggggc 480
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accacgggga cgtggtttc cttgaaaaa cacgatgata a 581

<210> 5
<211> 581
<212> RNA
<213> Encephalomyocarditis virus

<400> 5
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gccggugugc guuugucuau augugauuu ccaccaauuu gccgucuuu ggcaauguga 120
ggggccggaa accuggccu gucuucuuga cgagcauucc uaggggucuu uccccucug 180

ccaaaggaaau gcaaggucug uugaaugucg ugaaggaagc aguuccucug gaagcuuuu 240
gaagacaaac aacgucugua gcgacccuuu gcaggcagcg gaaccccca ccuggcgaca 300
ggugccucug cggccaaaag ccacguguau aagauacacc ugcaaaggcg gcacaaccc 360
agugccacgu ugugaguugg auaguugugg aaagagucaa auggcucucc ucaagcgau 420
ucaacaaggg gcugaaggau gcccagaagg uaccccauug uaugggaucu gaucuggggc 480
cucggugcac augcuuuaca uguguuagu cgagguaaaa aaaaacgucua ggccccccga 540
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<210> 6
<211> 581
<212> DNA
<213> Encephalomyocarditis virus

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tttgacttt tccacaacta tccaactcac aacgtggcac tgggttggc cccctttgc 240
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<210> 7
<211> 581
<212> RNA
<213> Encephalomyocarditis virus

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uuuuuaccuc gacuaaacac auguaaagca ugugcaccga ggccccagau cagaucccau 120
acaaugggggu accuuucuggg cauccuuuacg ccccuuugug aauacgcuug aggagagcca 180
uuugacucuu uccacaacua uccaacucac aacguggcac ugggguugug ccgccccuugc 240

agguguaucu uauacacugug gcuuuuggcc gcagaggcac cugucgccag gugggggguu 300
ccgcugccug caaagggucg cuacagacgu uguuugucuu caagaagcuu ccagaggaac 360
ugcuuccuuc acgacauuca acagaccuug cauuccuuug gcgagagggg aaagacccu 420
agaaauugcuc gucaagaaga cagggccagg uuuccggcc cucacauugc caaaagacgg 480
caauauuggug gaaaucaca uauagacaaa cgcacaccgg ccuuauucca agcggcuucg 540
gccaguaacg uuaggggggg gggagggaga gggcgaaau u 581

<210> 8
<211> 242
<212> DNA
<213> Cowpea chlorotic mottle virus

<400> 8
agtgcggct gaagagcggtt acactagtgt ggcctacttg aaggctagtt ataaccgttt 60
ctttaaacgg taatcggtgt tgaaacgtct tcctttaca agaggattga gctgccttg 120
ggtttactc ctgaaccct tcggaagaac tcttggagt tcgtaccagt acctcacata 180
gtgaggtaat aagactggtg ggcagcgcc agtcgaaaga ctaggtgatc tctaaggaga 240
cc 242

<210> 9
<211> 242
<212> RNA
<213> Cowpea chlorotic mottle virus

<400> 9
agugcccgcu gaagagcguu acacuagugu ggccuacuug aaggcuaguu auaaccguuu 60
cuuuuaacgg uaaucguugu ugaaacgucu uccuuuuaca agaggauuga gcugccuug 120
gguuuuacuc cuugaacccu acggaagaac ucuuuggagu ucguaccagu accucacaua 180
gugagguaau aagacuggug ggcagcgccu agucgaaaga cuaggugaug ucuaaggaga 240
cc 242

<210> 10
<211> 242
<212> DNA
<213> Cowpea chlorotic mottle virus

<400> 10
ggtccttta gagatcacct agtcttcga ctaggcgtg cccaccagtcc ttattacctc 60
actatgtgag gtactggtagtac gaactccaaa gagttttcc gaagggttca aggagtaaaa 120

cccaaggcga gctcaatcct ctgtaaaag gaagacgtt caacaacgtat taccgtttaa 180
agaaacggtt ataaactagcc ttcaagtagg ccacactagt gtaacgctct tcagcgggca 240
ct 242

<210> 11
<211> 242
<212> RNA
<213> Cowpea chlorotic mottle virus

<400> 11
ggucuccuua gagaucaccu agucuuucga cuaggcgug cccaccaguc uuauuaccuc 60
acuaugugag guacugguac gaacuccaaa gaguucuucc gaaggguuca aggaguaaaa 120
cccaaggcga gcucaauccu cuuguaaaag gaagacguuu caacaacgau uaccguuuua 180
agaaacgguu auaacuagcc uucaaguagg ccacacuagu guaacgcucu ucagcgggca 240
cu 242

<210> 12
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Artificial sequence used to show antisense relationship of a gene
and IRES to a promoter and viral 3' UTR

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or t

<400> 12
nnncatggaa tt 12

<210> 13
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Complement of artificial sequence used to show antisense
relationship of a gene and IRES to a promoter and viral 3' UTR

<220>
<221> misc_feature
<222> (10)..(12)
<223> n is a, c, g, or t

<400> 13
aattccatgn nn

12

<210> 14
<211> 12
<212> RNA
<213> Artificial

<220>
<223> Transcript of RNA polymerase

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or u

<400> 14
nnncauggaa uu

12

<210> 15
<211> 12
<212> RNA
<213> Artificial

<220>
<223> Complement of transcript of RNA polymerase

<220>
<221> misc_feature
<222> (10)..(12)
<223> n is a, c, g, or u

<400> 15
aauuccaugh nn

12

<210> 16
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA Construct containing promoter complementary coding sequence,
exemplary IRES complementary sequence and a viral 3' UTR in 5' -
3' orientation

<220>
<221> misc_feature
<223> DNA construct wherein YYY indicates complementary first
translatable codon after initiation codon and an asterisk
indicates a stop codon.

<400> 16
yyycatggaa tt

12

<210> 17
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA Construct containing promoter, coding sequence, exemplary
IRES sequence and a viral 3' UTR in 3' - 5' orientation

<220>
<221> misc_feature
<223> DNA construct wherein XXX indicates first translatable codon
after initiation codon and an asterisk indicates a stop codon.

<400> 17
yytgtacctt aa

12

<210> 18
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> RNA Construct containing complementary coding sequence, exemplary
IRES complementary sequence and a viral 3' UTR in 5' - 3'
orientation

<220>
<221> misc_feature
<223> Recombinant RNA sequence where YYY is the complement of the first
codon after the initiation codon and where an asterisk indicates
a stop codon.

<400> 18
yycauggaa uu

12

<210> 19
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> RNA Construct containing viral 3' UTR, exemplary IRES sequence
and a coding sequence in 5' - 3' orientation

<220>
<221> misc_feature

<223> Complementary sequence (sense strand) of RNA recombinant sequence
where XXX is the first translatable codon after initiation codon
and where an asterisk indicates a stop codon.

<400> 19

aauuccaugh yy

12